

AMENDMENTS TO THE SPECIFICATION:

Please delete the paragraph starting at page 4, line 1:

~~The above stated object is achieved by means of arrangements according to claims 12, 13 and 21, by means of computer program products according to claims 10 and 11 and by means of methods according to claims 1 and 2.~~

Please amend the paragraph starting at page 10, line 27, as follows:

A transmitter 500 and a receiver 504 in accordance with a second embodiment of the present invention is illustrated in **figure 5a**. It should be noted that the function of the PRBS generator 501, lookup table 502, vector transmitter 503 and vector receiver 507 respectively is similar to the function of the PRBS generator 401, lookup table 402, vector transmitter 403 and vector receiver 407 respectively of the first embodiment shown in **figure 4a**. In the second embodiment of the present invention, a mapping is performed by performing a modulo-2 addition between the modulated bit stream and a constant value q_0 from a second power reduction subset Q . The mapped bit stream are then transmitted to the vector transmitter 503. The output vector from the vector transmitter is then multiplied with one transformation matrixes R_j of a set of transformation matrixes R_j stored in a lookup table 506 shown in **figure 5a**. The transformation matrix R_j is randomly generated by a PRBS

generator 505. In accordance with the present invention, each transformation matrix of **figure 5a** transforms Q 90 degrees. The direction of the 90 degree transformation is hence randomly determined by the PRBS generator. If the modulation method is QAM ($N = 2$) and the vectors are represented by complex numbers, the set of transformation matrices degenerates to $\{1, i, -1, -i\}$. I.e. the result of the matrix multiplication, that is complex multiplication when the dimension is 2. In the QAM case, Q comprises 4 elements, m_0 , m_0 turned 90 degrees, m_0 turned 180 degrees and m_0 turned 270 degrees.

Please cancel the previously filed Abstract and add the new Abstract appended to this paper.

The new Abstract resembles the previous Abstract but does not recite "computer program products".